

FIBER ORGANON

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September 1992

MANUFACTURED FIBER, COTTON & WOOL END USE SURVEY

HIGHLIGHTS

- Annual Manufactured Fiber, Cotton and Wool End Use Survey.
- Manufactured Fiber & Semimanufactured Imports 1991 . . . see page 178.

This month's issue of the *Fiber Organon* contains our annual report of U.S. manufactured, cotton and wool fiber consumption by end use. This report is part of a continuing series covering fiber end use for the 43 years 1949-1991.

This survey is to measure the amount of raw manufactured, cotton and wool fiber required to produce the various end use items. Other fibers such as silk, linen, jute and sisal are used in the various products covered by the survey, but no quantity data for these fibers are included in the end uses.

Comparability With Past Data

Every year we report the most up-to-date information on fiber end use, which means previous data must sometimes be revised. Data in a series which has been revised will be denoted by an "r". Changes in definitions or coverage in an end use item are noted in the definitions.

For example, data on glass fiber are no longer available to prevent disclosure of company-level data. These data were

last reported in the September 1985 issue. There are new definitions for waste, apparel, home textiles and industrial and other consumer-type items.

The data in this survey may be used in conjunction with earlier issues of the *Textile Organon & Fiber Organon* as follows:

Years	Textile Organon & Fiber Organon Issues
1949-1955	November 1961
1956-1959	January 1966
1960-1963	January 1970
1964-1965	November 1971
1966-1967	November 1973
1968-1969	November 1975
1970	November 1976
1971-1972	November & December 1978
1973	November 1980
1974	November 1981
1975	November 1982
1976	November 1983
1977	September 1984
1978	September 1985
1979	September 1986
1983	September 1987
1984	September 1988
1985	September 1989
1986	September 1990
1987	September 1991

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TABLE 1:
U.S. FIBER CONSUMPTION BY END USE ^a

END USE	TOTAL FIBER								MANUFACTURED FIBER							
	MILLION POUNDS				% OF TOTAL END USE ^b				MILLION POUNDS				% OF TOTAL END USE ^b			
	1988	1989	1990	1991	1988	1989	1990	1991	1988	1989 [*]	1990 [*]	1991 [*]	1988	1989	1990	1991
APPAREL	5164	5514	5269	5604	38	39	38	39	2512	2569	2195	2221	27	28	24	24
HOME TEXTILES	2052	2285	2155	2179	15	16	15	15	954	927	896	885	10	10	10	10
FLOOR COVERINGS	3053	2997	3076	2986	23	22	22	21	3020	2959	3036	2941	33	32	33	32
INDUSTRIAL & OTHER																
CONS. - TYPE PROD	2807	2837	2978	3075	21	20	21	21	2490	2504	2635	2730	27	27	29	30
EXPORTS	456	492	532	572	3	3	4	4	313	337	364	394	3	3	4	4
TOTAL END USE	13532	14125	14010	14416	100	100	100	100	9289	9296	9126	9171	100	100	100	100

^a FOR 1988 THROUGH 1991, ARTIFICIAL (CELLULOSIC) STAPLE QUANTITIES FOR APPAREL, HOME TEXTILES, FLOOR COVERINGS AND INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS WERE PRORATED BASED ON 1988 ACTUAL DATA TO AVOID COMPANY DISCLOSURE.

All data are drawn from the U.S. End Use Summary table on page 176.

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

- a. Includes domestic shipments, fiber, yarn, fabric imports and waste.
b. The percentages in these columns show the usage of each type of fiber by its major end use categories. They add to 100% vertically.

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Fiber Organon

A Monthly Review

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SURVEY COVERAGE

Table Presentation

End use data are presented by type of fiber, manufactured, cotton and wool; by type of end use product; and by exports of domestic semimanufactured products. All data are in millions of pounds.

Table 1 shows both total and manufactured fiber consumption by end use for the years 1988, 1989, 1990 and 1991. In addition to the pounds of fiber consumed, the percentage of total end use is reported for five categories: apparel, home textiles, floor coverings, industrial and other consumer-type products and exports.

Table 2 presents greater fiber and annual detail than Table 1. Percentage distributions are given for both total end use and for individual end uses.

Tables 6 through 9 give further detail on each of the five end uses reported in Table 2, covering the same five year period 1987 - 1991. The major change in Tables 6-9 are: Home Textiles Item 51 is now "Curtains & Drapery", and Item 52 is "Upholstery" only (Table 7).

The substantial imports of finished products, such as apparel, blankets, tablecloths and rugs are not included in this survey as they are not manufactured in domestic mills.

Fibers Covered

The manufactured fiber data are presented in two general categories. Artificial (Cellulosic), which includes rayon and acetate, and Synthetic (Noncellulosic), which includes nylon, polyester, acrylic and olefin. Glass fiber is no longer included. See footnote (b) under General Notes on page 186 for additional descriptions. The cotton end use data cover raw cotton. Cotton waste and cotton linters quantities are excluded, except when pertaining to waste. See the section describing waste fiber coverage for further explanation. Wool data cover both virgin and reprocessed and reused wool.

SURVEY WASTE FIBER COVERAGE

In the survey, textile fiber waste is handled in three different ways: First, end uses which employ waste fiber, either wholly or in part without preliminary processing are not included (e.g., furniture stuffing, mat-

tress felts, punched or needled felts for carpet & rug underlays, pressed wool felts and some nonwoven fabrics).

Second, for certain end uses which utilize both new fiber and the fiber derived from processed waste, the quantities shown have been calculated so as to exclude the waste component inasmuch as possible.

And third, waste which has been processed into usable spinnable fiber is included in the quantities shown for Blankets (Item 46), Carpets & Rugs (Item 50) and a number of other applications. It is important to note that in products such as these, fiber derived from waste by preliminary processing, especially for the manufactured fiber quantities, is a significant and measured part of the total end use.

METHODOLOGY

COTTON: The cotton series presented in earlier issues were mainly those of the National Cotton Council as published in its annual survey "*Cotton Counts Its Customers*" (1989 and earlier editions).

With the 1989 issue we changed the methodology in using the bale opening figure from the Bureau of the Census Report M22P plus imports. *Cotton Counts Its Customers* is used as an indicator for the end use distribution.

WOOL: The Wool Bureau and government data are employed.

Blends of wool with other fibers are common in many end uses, but little information is available on the fiber composition of these blends. Thus, relatively reliable measures are available mainly on the wool quantities used in Home Textiles (blankets and carpets) and such Apparel items as Craft Yarns.

These quantities were deducted from the Available Supply in Table 3, page 177, and residual quantities were then attributed to Apparel Usage in individual apparel items from the years 1987 - 1991. This was calculated by correlating the data of Census reports MA-23A and MQ-22T on Apparel and Broad Woven Goods, respectively.

MANUFACTURED FIBERS: The manufactured fiber data are based on producers' domestic shipments plus imports of fiber, yarn and semimanufactured products.

Continued on Page 177

TABLE 2:
U.S. END USE SUMMARY EXCLUDING GLASS FIBER
MILLION POUNDS & PERCENT

END USE & YEAR	GRAND TOTAL			COTTON			WOOL			MANUFACTURED FIBERS			MANUFACTURED FIBER DETAIL									
													ARTIFICIAL (CELL.)				SYNTHETIC (NONCELL.)					
													TOTAL			YARN	STAPLE*	TOTAL			YARN	STAPLE
	LBS	% ^a	% ^b	LBS	% ^a	% ^b	LBS	% ^a	% ^b	LBS	LBS											
APPAREL																						
1987	5564	100	40.0	2769	49.8	61.3	157	2.8	69.5	2638	47.4	28.8	236	4.2	40.2	123	113	2402	43.2	28.0	979	1423
1988	5164	100	38.2	2513	48.7	62.3	139	2.7	66.2	2512	48.6	27.0	276	5.3	45.0	143	133	2236	43.3	25.8	879	1357
1989	5514	100	39.0	2821	51.2	60.9	124	2.2	63.3	2569	46.6	27.6	274	5.0	45.7	150	124	2295	41.6	26.4	919	1376
1990	5269	100	37.6	2956	56.1	62.9	118	2.2	63.8	2195	41.7	24.1	294	5.6	49.2	148	146	1901	36.1	22.3	741	1160
1991	5604	100	38.9	3241	57.8	64.4	142	2.6	66.7	2221	39.6	24.2	283	5.0	50.9	162	121	1938	34.6	22.5	779	1159
HOME TEXTILES																						
1987	2162	100	15.5	1232	57.0	27.3	18	0.8	8.0	912	42.2	9.9	139	6.4	23.7	22	117	773	35.8	9.0	249	524
1988	2052	100	15.2	1079	52.6	26.8	19	0.9	9.0	954	46.5	10.3	130	6.3	21.2	21	109	824	40.2	9.5	271	553
1989	2285	100	16.2	1339	58.6	28.9	19	0.8	9.7	927	40.6	10.0	123	5.4	20.5	21	102	804	35.2	9.2	283	521
1990	2155	100	15.4	1245	57.8	26.5	14	0.6	7.6	896	41.6	9.8	104	4.8	17.4	23	81	792	36.8	9.3	280	512
1991	2179	100	15.1	1283	58.9	25.5	11	0.5	5.2	885	40.6	9.6	94	4.3	16.9	22	72	791	36.3	9.2	273	518
FLOOR COVERINGS																						
1987	2975	100	21.4	18	0.6	0.4	23	0.8	10.2	2934	98.6	32.0	1	0	0.2	0	1	2933	98.6	34.2	1614	1319
1988	3053	100	22.6	12	0.4	0.3	21	0.7	10.0	3020	98.9	32.5	1	0	0.2	0	1	3019	98.9	34.8	1650	1369
1989	2997	100	21.2	14	0.5	0.3	24	0.8	12.2	2959	98.7	31.8	1	0	0.2	0	1	2958	98.7	34.0	1660	1298
1990	3076	100	22.0	19	0.6	0.4	21	0.7	11.4	3036	98.7	33.3	+	0	0	0	+	3036	98.7	35.6	1785 ^c	1251
1991	2986	100	20.7	20	0.7	0.4	25	0.8	11.7	2941	98.5	32.1	+	0	0	0	+	2941	98.5	34.1	1763 ^c	1178
INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS																						
1987	2806	100	20.2	374	13.3	8.3	13	0.5	5.8	2419	86.2	26.4	189	6.7	32.2	22	167	2230	79.5	26.0	1185	1045
1988	2807	100	20.7	305	10.9	7.6	12	0.5	5.7	2490	88.6	26.8	181	6.4	29.5	21	160	2309	82.2	26.6	1239	1070
1989	2837	100	20.1	324	11.4	7.0	9	0.3	4.6	2504	88.3	26.9	175	6.2	29.2	26	149	2329	82.1	26.8	1266	1063
1990	2978	100	21.3	333	11.2	7.1	10	0.4	5.4	2635	88.4	28.9	171	5.7	28.6	8	163	2464	82.7	28.9	1300	1164
1991	3075	100	21.3	333	10.8	6.6	12	0.4	5.6	2730	88.8	29.8	147	4.8	26.4	7	140	2583	84.0	30.0	1243	1340
EXPORTS OF DOMESTIC PRODUCTS																						
1987	406	100	2.9	127	31.3	2.7	15	3.7	6.5	264	65.0	2.9	22	5.4	3.7	13	9	242	59.6	2.8	100	142
1988	456	100	3.3	124	27.2	3.0	19	4.2	9.1	313	68.6	3.4	25	5.5	4.1	15	10	288	63.1	3.3	119	169
1989	492	100	3.5	135	27.4	2.9	20	4.1	10.2	337	68.5	3.7	27	5.5	4.4	16	11	310	63.0	3.6	128	182
1990	532	100	3.7	146	27.4	3.1	22	4.1	11.8	364	68.5	3.9	29	5.5	4.8	17	12	335	63.0	3.9	138	197
1991	572	100	4.0	155	27.1	3.1	23	4.0	10.8	394	68.9	4.3	32	5.6	5.8	19	13	362	63.3	4.2	150	212
TOTAL END USE CONSUMPTION																						
1987	13913	100	100	4520	32.5	100	226	1.6	100	9167	65.9	100	587	4.2	100	180	407	8580	61.7	100	4127	4453
1988	13532	100	100	4033	29.8	100	210	1.6	100	9289	68.6	100	613	4.5	100	200	413	8676	64.1	100	4158	4518
1989	14125	100	100	4633	32.8	100	196	1.4	100	9296	65.8	100	600	4.2	100	213	387	8696	61.6	100	4256	4440
1990	14010	100	100	4699	33.5	100	185	1.3	100	9126	65.2	100	598	4.3	100	196	402	8528	60.9	100	4244	4284
1991	14416	100	100	5032	34.9	100	213	1.4	100	9171	63.7	100	556	3.9	100	210	346	8615	59.8	100	4208	4407

* FOR 1989 THROUGH 1991, ARTIFICIAL (CELLULOSIC) STAPLE QUANTITIES FOR APPAREL, HOME TEXTILES, FLOOR COVERINGS AND INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS WERE PRORATED BASED ON 1988 ACTUAL DATA TO AVOID COMPANY DISCLOSURE.

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

a. The percentages in these columns show the share of each fiber in the specified end use each year. They add horizontally to the 100% shown in each of the Grand Total columns.

b. The percentages in these columns show the usage of each type of fiber by its major end use categories. They add vertically to the 100% shown under Total End Use Consumption.

c. The increase in yarns for floor coverings is due to a more thorough response and not because of increased consumption.

TABLE 3:
END USE CONSUMPTION INCLUDING SEMIMANUFACTURED IMPORTS*
MILLION POUNDS

YEAR	MANUFACTURED FIBERS													AVAIL- ABLE SUPPLY		
	MILL CONSUMPTION						COTTON								WOOL	
	ARTIFICIAL (CELLULOSIC)			SYNTHETIC (NONCELLULOSIC)			MILL CONS. ^a	IMPORTS ^c	TOTAL	REPRO- CESSED & REUSED ^a	COTTON SYSTEM ^d	IMPORTS ^c	TOTAL			
	YARN	STAPLE ^b	TOTAL	YARN	STAPLE ^b	TOTAL										
1987	179.6	406.0	585.6	3927.1	4349.0	8276.1	3736.5	784.4	4520.9	167.6	7.9	6.9	44.1	226.5	13912.7	
1988	200.2	412.2	612.4	4045.9	4359.1	8405.0	3470.1	561.9	4032.0	156.1	3.8	6.8	43.0	209.7	13532.4	
1989	213.6	387.3	600.9	4094.2	4314.7	8408.9	3985.9	*646.2	4632.1	139.6	4.5	13.8	*38.0	195.9	14124.2	
1990	196.9	402.0	598.9	4143.3	4054.8	8198.1	4036.5	*662.2	4698.7	135.4	5.0	10.9	*33.4	184.7	14010.4	
1991	210.7	345.8	556.5	4163.3	4147.8	8311.1	4347.5	*685.4	5032.9	159.0	5.3	15.7	*33.0	213.0	14417.4	

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series

including Glass Fiber was last published in the September 1985 issue.

* Preliminary estimates.

^a Mill Consumption is taken from page 69 of the April 1992 *Fiber Organon*, plus subsequent revisions.

^b Manufactured staple includes waste.

^c Imports are taken from page 55 of the March 1992 *Fiber Organon*.

^d These volumes of reprocessed and reused wool, as well as wool used on the cotton spinning system, are not included in the mill consumption series for wool.

^e Semimanufactured imports are taken from page 178 of this issue.

Continued From Page 175

UNIT PRODUCTION VERSUS FIBER CONSUMED

This survey shows the quantity of raw fiber which had to be put into process in order to manufacture end products. No direct comparison can be, or should be, made between the quantities of the fibers consumed, as recorded in the survey, and the finished or "shelf" weight of those end products by fiber. Comparison should be avoided because:

1. The variation in the weight per square yard of fabric made of the different fibers for the same end use. According to recent data collected by the U.S. Census Bureau, cotton fabrics averaged 7.0 square yards per pound and

yards per pound. But for manufactured fiber, 100% filament yarn fabrics averaged 4.4 square yards per pound and spun yarn fabrics averaged 3.3 square yards per pound.

2. From these data, it is apparent that the "covering power" of fabrics made from the various fibers varies a great deal. Hence, a simple comparison of quantities of fibers consumed would be misleading both because of the differences in fibers concerning covering power and the difference in typical fabric weights of products made of the various fibers, as described.

Continued On Page 182

TABLE 4:
MANUFACTURED FIBER & SEMIMANUFACTURED IMPORTS
MILLION POUNDS

ITEM	1989	1990	1991
ARTIFICIAL (CELLULOSIC) FIBER			
FILAMENT YARN			
HIGH TENACITY	2.5	2.4	3.8
TEXTURED	1.4	0.4	+
OTHER	21.4	20.7	27.0
MONOFILAMENTS & STRIPS	1.0	0.7	+
SUBTOTAL ABOVE	26.3	24.2	30.8
STAPLE	53.1	106.1	90.7
TOW	0.8	5.5	1.3
TOPS	0.1	+	+
SUBTOTAL ABOVE	54.0	111.6	92.0
WASTE	0.6	0.5	1.9
SYNTHETIC (NONCELLULOSIC) FIBERS			
FILAMENT YARN			
NYLON			
HIGH TENACITY	19.5	15.2	18.6
TEXTURED			
UP TO 450 DENIER	3.5	3.6	4.4
OVER 450 DENIER	14.1	28.3	34.0
POY	0	11.8	30.6
OTHER	47.2	21.8	23.1
MONOFILAMENTS & STRIPS	1.3	1.6	1.5
SUBTOTAL ABOVE	85.6	82.3	112.2
POLYESTER			
HIGH TENACITY	7.8	6.0	8.3
TEXTURED	19.0	10.6	7.7
POY	16.3	4.8	3.2
OTHER	18.9	19.9	20.1
MONOFILAMENTS & STRIPS	0.7	0.6	0.7
SUBTOTAL ABOVE	62.7	41.9	40.0
OTHER SYNTHETIC FILAMENT			
TEXTURED	19.2	20.5	1.6
OTHER	7.8	3.4	13.7
MONOFILAMENTS & STRIPS	6.9	6.6	7.4
SUBTOTAL ABOVE	33.9	30.5	22.7
STAPLE			
NYLON	21.7	35.9	27.7
POLYESTER	117.7	122.2	178.8
ACRYLIC	17.9	16.7	14.8
POLYPROPYLENE	2.1	1.6	4.0
OTHER	4.4	3.2	3.4
TOW			
NYLON	4.5	5.3	6.2
POLYESTER	0.9	0.9	1.0
ACRYLIC	19.6	21.2	23.2
OTHER	0.6	0.6	0.2
TOPS	3.0	2.2	3.8
SUBTOTAL ABOVE	192.4	209.8	263.1
WASTE			
NYLON	24.0	21.3	20.1
POLYESTER	17.0	24.5	13.1
OTHER	7.0	8.6	7.1
TOTAL MANUFACTURED FIBERS ABOVE	503.5	555.2	603.0
SEMIMANUFACTURES ^a			
SLIVER, TOPS & ROVING	4.6	4.6	6.7
YARNS, THROWN OR PLIED	12.7	14.8	21.1
SPUN YARNS	48.8	23.4	7.4
SEWING THREAD	6.5	6.7	8.3
WOVEN FABRICS	186.4	197.1	211.7
NARROW FABRICS	15.4	20.7	22.5
KNIT FABRIC	12.0	22.7	25.9
TOTAL SEMIMANUFACTURES ABOVE	286.4	290.0	303.6
GRAND TOTAL ABOVE	789.9	845.2	906.6

SOURCES: U.S. Census Bureau Report IM146; U.S. Department of Agriculture, *Cotton & Wool Situation and Outlook Report*.

Effective January 1, 1989 the U.S. Imports are based on the new Harmonized System (HS). The Harmonized Tariff Schedule of the United States covering artificial (cellulosic) and synthetic (noncellulosic) fibers, Annotated for Statistical Reporting Purposes. Data for 1989 through 1991 are not comparable to prior years. Data for 1984 through 1988 are reported on page 206 of the September 1989 *Fiber Organon* issue.

a. Preliminary.

TABLE 5:
EXPORTS OF SEMIMANUFACTURED PRODUCTS *
MILLION POUNDS

MILLION POUNDS								
END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS ^b					COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE	YARN	STAPLE		
TOTAL EXPORTS OF SEMIMANUFACTURED PRODUCTS								
1987	405.6	263.8	12.5	8.6	100.3	142.4	126.9	14.9
1988	455.0	312.6	14.7	10.3	118.8	168.8	123.8	18.6
1989	492.6	337.6	15.9	11.1	128.3	182.3	134.9	20.1
1990	532.3	364.6	17.1	12.1	138.5	196.9	146.0	21.7
1991	571.2	393.8	18.4	13.2	149.7	212.5	154.8	22.6
80 YARN, THREAD, ETC*								
1987	86.2	53.9	e	2.8	e	51.1	19.6	12.7
1988	110.2	66.5	e	3.5	e	63.0	27.2	16.5
1989	117.7	70.2	e	3.8	e	66.4	29.7	17.8
1990	127.1	75.8	e	4.1	e	71.7	32.1	19.2
1991	136.5	81.9	e	4.4	e	77.5	34.1	20.5
81 WOVEN & KNIT FABRIC*								
1987	319.4	209.9	12.5	5.8	100.3	91.3	107.3	2.2
1988	344.8	246.1	14.7	6.8	118.8	105.8	96.6	2.1
1989	374.9	267.4	15.9	7.3	128.3	115.9	105.2	2.3
1990	405.2	288.8	17.1	8.0	138.5	125.2	113.9	2.5
1991	434.7	311.9	18.4	8.8	149.7	135.0	120.7	2.1

SOURCE: U.S. Department of Agriculture, *Cotton & Wool Situation and Outlook Report*.

For all lettered and general footnotes to this table, see page 186.

1989 THROUGH 1991 PRELIMINARY ESTIMATES.

This is a non-add section since the volumes are included in Tables 2 and 6 through 9.

NOTES FOR EXPORT ITEMS ABOVE

For all lettered and general footnotes to this table, see page 186.

These exports do not duplicate the end use quantities that are reported in Items 1 through 79. Apparel items are not tabulated here because they already have been counted as the fabric was cut, i.e., they are counted only once regardless of the subsequent place of sale or consumer use.

Similarly, fabrics for blankets, sheets, upholstery & draperies, carpets, etc., are excluded since they are measured at the mill level as an end use.

The exports of manufactured fiber filament yarn+monofilaments, staple, tow, etc., are not tabulated in this section because these products are not a factor in U.S.

mill consumption.

On the other hand, the two export items are recorded because, while they were processed or fabricated in U.S. mills, they were exported before reaching the point at which end use is measured.

80. YARN, THREAD, ETC:

Consists of sliver, tops & roving; plied and spun yarn; sewing thread and handwork yarns; cotton twine and cordage; and advanced wool.

81. WOVEN & KNIT FABRIC:

Consists of broad & narrow woven fabrics and knit cloth, except that cotton also includes table damask and tire cord & fabric.

TABLE 6:
FIBER CONSUMED IN U.S. APPAREL PRODUCTION INCLUDING FIBER, YARN,
FABRIC IMPORTS & WASTE *
MILLION POUNDS

END USE & YEAR		TOTAL FIBER	MANUFACTURED FIBERS ^b				COTTON	WOOL	
			TOTAL	ARTIFICIAL (CELL)		SYNTHETIC (NONCELL)			
				YARN	STAPLE ^a	YARN			STAPLE
TOTAL APPAREL									
1987	5563.4	2637.5	123.4	112.8	978.8	1422.5	2769.2	156.7	
1988	5163.4	2511.8	143.5	133.0	879.0	1356.3	2512.8	138.8	
1989	r5513.8	r2569.4	150.1	124.1	r919.7	r1375.5	r2820.9	r123.5	
1990	r5268.8	r2195.3	148.0	146.3	r740.8	r1160.2	r2955.5	118.0	
1991	5604.4	2220.8	161.8	121.0	779.0	1159.0	3241.2	142.4	
40 SHEER HOSIERY (W)*									
1987	95.4	91.3	--	--	91.3	--	4.1	--	
1988	97.7	93.8	--	--	93.8	--	3.9	--	
1989	r108.3	103.9	--	--	103.9	--	r4.4	--	
1990	r102.2	97.9	--	--	97.9	--	r4.3	--	
1991	112.4	108.0	--	--	108.0	--	4.4	--	
19,41 ANKLETS & SOCKS (MW)*									
1987	224.5	112.8	c	0.4	59.0	53.4	107.9	3.8	
1988	215.9	106.0	0.1	0.3	58.6	47.0	106.5	3.4	
1989	r262.5	120.7	c	0.2	77.8	42.7	r138.5	3.3	
1990	r252.8	118.5	0.3	0.2	82.2	35.8	r131.5	2.8	
1991	278.3	123.5	0.4	0.2	85.5	37.4	151.4	3.4	
8,29 SWEATERS & RELATED ACCESSORIES									
1987	257.8	155.6	--	0.3	0.3	155.0	82.9	19.3	
1988	211.5	140.9	0.1	0.1	0.4	140.3	55.6	15.0	
1989	r207.0	140.0	--	0.1	0.1	139.8	r52.4	14.6	
1990	r151.4	99.1	--	0.1	0.1	98.9	r39.8	12.5	
1991	140.8	88.9	--	0.1	0.4	88.4	39.4	12.5	
57 CRAFT & HANDWORK YARNS*									
1987	80.6	72.0	0.9	0.2	c	70.9	4.6	4.0	
1988	74.5	67.6	1.1	0.2	--	66.3	3.8	3.1	
1989	r71.4	64.9	0.9	0.2	--	63.8	r4.3	2.2	
1990	r69.7	r62.5	0.3	--	--	r62.2	5.3	1.9	
1991	64.5	56.7	0.4	--	0.2	56.1	5.5	2.3	
16-18 UNDERWEAR & NIGHTWEAR (M)*									
1987	356.9	100.0	--	--	10.5	89.5	256.7	0.2	
1988	321.8	84.8	--	--	8.7	76.1	236.8	0.2	
1989	r339.9	79.7	--	--	7.6	72.1	r260.0	0.2	
1990	r393.1	80.7	--	--	10.4	70.3	r312.2	0.2	
1991	437.3	90.4	--	--	26.3	64.1	346.7	0.2	
35-39 UNDERWEAR, NIGHTWEAR, BRAS AND FOUNDATIONS (W)*									
1987	204.8	123.7	1.9	--	92.0	29.8	80.9	0.2	
1988	200.0	125.2	2.9	--	88.3	34.0	74.6	0.2	
1989	r238.2	153.1	5.4	--	94.2	53.5	r84.9	0.2	
1990	r207.4	112.0	5.5	--	66.7	39.8	r95.2	0.2	
1991	221.1	113.4	3.7	--	68.5	41.2	107.5	0.2	
10,31 ROBES & LOUNGEWEAR (MW)*									
1987	89.9	61.7	19.7	--	22.9	19.1	25.9	2.3	
1988	86.3	63.9	19.3	--	27.9	16.7	20.1	2.3	
1989	r97.2	72.4	16.2	--	35.0	21.2	r22.6	2.2	
1990	r66.9	44.9	7.3	--	21.0	16.6	r20.1	1.9	
1991	71.3	52.6	10.5	--	24.0	18.1	16.4	2.3	

TABLE 6:
FIBER CONSUMED IN U.S. APPAREL PRODUCTION INCLUDING FIBER, YARN,
FABRIC IMPORTS & WASTE * (CONTINUED)
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	TOTAL	MANUFACTURED FIBERS ^b				COTTON	WOOL
			ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE*	YARN	STAPLE		
54a HIGH PILE FABRICS								
1987	67.9	67.9	--	2.0	15.4	50.5	--	--
1988	54.2	54.2	--	--	8.3	45.9	--	--
1989	54.7	54.7	4.0	--	8.9	41.8	--	--
1990	r50.0	r50.0	--	--	10.9	r39.1	--	--
1991	40.9	40.9	--	--	11.7	29.2	--	--
54b FABRICS FOR LINING*								
1987	181.6	136.1	90.4	5.8	23.6	16.3	42.6	2.9
1988	176.7	139.1	104.1	6.5	18.3	10.2	34.9	2.7
1989	r167.1	129.9	95.7	6.1	20.8	7.3	r34.7	2.5
1990	r146.0	110.7	74.8	4.4	21.4	10.1	r33.2	2.1
1991	151.3	109.6	80.2	3.8	16.3	9.3	39.1	2.6
43 APPAREL LACE (W)*								
1987	3.9	2.4	0.3	--	2.1	--	1.5	--
1988	4.6	3.1	--	--	3.1	--	1.5	--
1989	7.7	6.2	--	--	6.2	--	1.5	--
1990	4.4	2.9	--	--	2.9	--	1.5	--
1991	6.5	5.0	--	--	5.0	--	1.5	--
56a NARROW FABRICS*								
1987	77.7	51.6	2.2	--	46.4	3.0	26.1	--
1988	78.5	51.7	2.6	--	46.4	2.7	26.8	--
1989	r92.8	62.4	4.3	--	56.2	1.9	r30.4	--
1990	r81.1	50.1	3.2	--	46.9	--	r31.0	--
1991	74.3	46.4	0.5	--	45.9	--	27.9	--
TOPWEIGHT FABRICS*								
1987	1489.8	718.7	5.6	49.3	127.5	536.3	767.4	3.7
1988	1490.8	724.1	5.8	55.5	130.1	532.7	763.3	3.4
1989	r1744.0	r770.2	11.3	51.7	r158.4	r548.8	r970.5	3.3
1990	r1688.2	650.5	13.4	78.8	101.9	456.4	r1034.9	2.8
1991	1737.2	655.2	10.6	60.6	111.5	472.5	1078.8	3.2
BOTTOMWEIGHT FABRICS*								
1987	2370.2	934.9	2.4	53.3	484.5	394.7	1315.0	120.3
1988	2112.1	839.2	2.5	66.9	391.5	378.3	1164.4	108.5
1989	r2081.3	r792.9	1.3	62.4	r347.1	r382.1	r1193.4	r95.0
1990	r1983.5	667.4	1.4	60.5	274.9	330.6	r1222.5	93.6
1991	2187.1	670.3	1.5	54.2	272.4	342.2	1401.1	115.7
OTHER APPAREL & ACCESSORIES (MW)*								
1987	62.4	8.8	--	1.5	3.3	4.0	53.6	c
1988	38.8	18.2	5.0	3.5	3.6	6.1	20.6	c
1989	r41.7	18.4	11.0	3.4	3.5	0.5	r23.3	c
1990	r72.1	48.1	41.8	2.3	3.6	0.4	r24.0	c
1991	81.4	59.9	54.0	2.1	3.3	0.5	21.5	c

* FOR 1989 THROUGH 1991, ARTIFICIAL (CELLULOSIC) STAPLE QUANTITIES WERE PRORATED BASED ON 1988 ACTUAL DATA TO AVOID COMPANY DISCLOSURE.

Most of the above data are taken from the Fiber Economics Bureau's publication **Manufactured Fiber Handbook**.

For all lettered and general footnotes to this table and the Home Textiles, Floor Covering and Industrial & Other Consumer-Type Products tables, please see page 186.

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

TABLE 7:
FIBER CONSUMED IN U.S. HOME TEXTILES PRODUCTION INCLUDING FIBER, YARN,
FABRIC IMPORTS & WASTE EXCLUDING FLOOR COVERINGS *
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS ^b					COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE*	YARN	STAPLE		
TOTAL HOME TEXTILES								
1987	2162.3	912.3	21.8	117.2	248.8	524.5	1232.0	18.0
1988	2051.5	953.8	20.8	108.8	270.6	553.6	1078.6	19.1
1989	r2284.8	927.1	20.9	101.5	283.2	521.5	r1338.7	19.0
1990	r2154.9	895.9	22.9	80.8	280.4	r511.8	r1245.2	13.8
1991	2179.1	885.2	22.5	71.9	273.3	517.5	1283.4	10.5
45 BEDSREADS & QUILTS*								
1987	178.8	93.8	--	3.3	20.5	70.0	85.0	--
1988	190.1	109.9	0.2	--	29.0	80.7	80.2	--
1989	r156.4	72.7	--	--	21.9	50.8	r83.7	--
1990	r161.7	71.6	--	--	21.7	49.9	r90.1	--
1991	161.0	66.3	--	--	21.5	44.8	94.7	--
46 BLANKETS & BLANKETING*								
1987	80.6	51.8	--	0.2	--	51.6	24.7	4.1
1988	73.0	43.5	--	0.2	--	43.3	25.3	4.2
1989	r118.9	48.7	--	0.2	--	48.5	r64.9	5.3
1990	r105.3	r32.6	--	--	--	r32.6	r68.8	3.9
1991	104.7	23.9	--	0.1	--	23.8	77.8	3.0
47 SHEETS & OTHER BEDDING*								
1987	520.2	235.2	1.5	7.2	59.7	166.8	285.0	--
1988	496.9	239.4	0.4	6.2	60.8	172.0	257.5	--
1989	r516.8	228.5	--	5.8	48.0	174.7	r288.3	--
1990	r534.6	226.4	--	4.4	51.8	170.2	r308.2	--
1991	539.4	243.1	--	3.8	56.0	183.3	296.3	--
48 TOWELS & TOWELING*								
1987	556.4	34.2	--	0.1	0.5	33.6	522.2	--
1988	457.9	36.7	--	0.2	0.5	36.0	421.2	--
1989	r593.7	26.6	--	0.2	--	26.4	r567.1	--
1990	r445.0	19.4	--	0.1	0.2	19.1	r425.6	--
1991	450.1	21.4	--	0.1	0.4	20.9	428.7	--
56b NARROW FABRICS*								
1987	6.2	2.2	--	--	1.7	0.5	4.0	--
1988	6.0	2.0	--	--	1.8	0.2	4.0	--
1989	7.5	3.5	--	--	0.1	3.4	4.0	--
1990	4.0	--	--	--	--	--	4.0	--
1991	4.3	0.3	--	--	--	0.3	4.0	--

Continued From Page 177

LIMITATIONS OF THE SURVEY RESULTS

The statistical results of this end use survey should be considered as approximations. These data are best used as a means of comparison to measure the long-term trends among the fibers.

Please note that the data are given in millions of pounds and include one decimal place to show hundred thousand pounds. This device is employed not to show great accuracy, but rather to take into account some small quantities of fibers in such end uses as Apparel Lace and still allow the compilation to add arithmetically.

TABLE 7:
FIBER CONSUMED IN U.S. HOME TEXTILES PRODUCTION INCLUDING FIBER, YARN,
FABRIC IMPORTS & WASTE EXCLUDING FLOOR COVERINGS * (CONTINUED)
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS ^b					COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE*	YARN	STAPLE		
51 CURTAINS & DRAPERY*								
1987	273.8	163.1	19.7	52.2	42.5	48.7	110.7	--
1988	279.8	181.8	19.9	49.9	50.4	61.6	98.0	--
1989	r309.5	187.3	17.0	46.6	60.2	63.5	r122.2	--
1990	r310.5	181.1	18.5	38.2	55.5	68.9	r129.4	--
1991	296.0	151.3	18.2	33.4	33.8	65.9	144.7	--
52 UPHOLSTERY*								
1987	464.7	269.2	0.1	53.2	93.0	122.9	181.6	13.9
1988	450.4	259.8	--	48.7	86.3	124.8	175.7	14.9
1989	r479.0	274.4	0.8	45.5	109.7	118.4	r190.9	13.7
1990	r471.8	261.2	c	34.5	121.8	104.9	r200.7	9.9
1991	481.0*	254.4	--	31.4	126.2	96.8	219.1	7.5
OTHER HOME TEXTILES*								
1987	81.6	62.8	0.5	1.0	30.9	30.4	18.8	--
1988	97.4	80.7	0.3	3.6	41.8	35.0	16.7	--
1989	r103.0	85.4	3.1	3.2	43.3	35.8	r17.6	--
1990	r122.0	103.6	4.4	3.6	29.4	66.2	r18.4	--
1991	142.6	124.5	4.3	3.1	35.4	81.7	18.1	--

TABLE 8:
FIBER CONSUMED IN U.S. FLOOR COVERINGS PRODUCTION INCLUDING FIBER, YARN,
FABRIC IMPORTS & WASTE *
MILLION POUNDS

END USE & YEAR		TOTAL FIBER	MANUFACTURED FIBERS ^b				COTTON	WOOL	
			TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
				YARN	STAPLE*	YARN			STAPLE
50 TOTAL CARPETS & RUGS*									
1987	2974.7	2933.6	--	0.8	1613.7	1319.1	17.6	23.5	
1988	r3053.2	r3019.9	--	0.9	r1649.9	1369.1	11.7	21.6	
1989	r2997.2	2958.8	--	1.1	1659.7	1298.0	r13.9	24.5	
1990	r3075.8	r3036.0	--	0.3	r1784.9	1250.8	r18.8	21.0	
1991	2986.9	2941.4	--	0.1	1762.7	1178.6	20.1	25.4	
50a FACE YARNS*									
1987	2462.0	2429.3	--	0.8	1188.4	1240.1	9.2	23.5	
1988	r2528.2	r2500.7	--	0.9	r1222.9	1276.9	5.9	21.6	
1989	r2429.4	2399.2	--	1.1	1196.3	1201.8	r5.7	24.5	
1990	r2525.2	r2496.0	--	0.3	r1337.4	1158.3	r8.2	21.0	
1991	2479.7	2445.6	--	0.1	1349.4	1096.1	8.7	25.4	
50b BACKING*									
1987	512.7	504.3	--	--	425.3	79.0	8.4	--	
1988	525.0	519.2	--	--	427.0	92.2	5.8	--	
1989	r567.8	559.6	--	--	463.4	96.2	r8.2	--	
1990	r550.6	540.0	--	--	447.5	92.5	r10.6	--	
1991	507.2	495.8	--	--	413.3	82.5	11.4*	--	

FOOTNOTES FOR BOTH TABLE 7 & TABLE 8:

*FOR 1989 THROUGH 1991, ARTIFICIAL (CELLULOSIC) STAPLE QUANTITIES WERE PRORATED BASED ON 1988 ACTUAL DATA TO AVOID COMPANY DISCLOSURE.

Most of the above data are taken from the Fiber Economic Bureau's publication *Manufactured Fiber Handbook*.

For all lettered and general footnotes to this table and the Apparel and Industrial & Other Consumer-Type Products tables, please see page 186.

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

TABLE 9:
FIBER CONSUMED IN U.S. INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS
INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE ^a
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	TOTAL	MANUFACTURED FIBERS ^b				COTTON	WOOL
			ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE*	YARN	STAPLE		
TOTAL INDUSTRIAL & OTHER CONSUMER								
1987	2805.9	2418.5	22.0	166.6	1185.2	1044.7	374.0	13.4
1988	2806.7	2489.4	21.0	160.0	1238.6	1069.8	305.1	12.2
1989	r2836.3	2503.6	25.6	149.3	1265.8	1062.9	r323.7	9.0
1990	r2978.2	r2634.8	8.2	163.2	1300.0	r1163.4	r333.2	10.2
1991	3075.3	2729.8	7.4	139.5	1243.4	1339.5	333.4	12.1
65 TIRES*								
1987	316.6	313.9	8.1	--	305.8	--	2.7	--
1988	312.5	309.9	5.9	--	304.0	--	2.6	--
1989	r315.6	312.6	6.0	--	306.6	--	r3.0	--
1990	r304.1	300.8	2.8	--	298.0	--	r3.3	--
1991	285.8	282.4	2.5	--	279.9	--	3.4	--
66 HOSE*								
1987	30.2	27.5	9.4	--	17.2	0.9	2.7	--
1988	34.0	31.3	8.4	--	17.7	5.2	2.7	--
1989	34.7	32.7	7.1	--	21.9	3.7	2.0	--
1990	32.4	30.7	2.3	--	25.0	3.4	1.7	--
1991	29.6	27.8	2.2	--	23.2	2.4	1.8	--
67 BELTING*								
1987	46.7	37.0	2.5	--	26.6	7.9	9.7	--
1988	50.4	41.6	1.6	--	24.3	15.7	8.8	--
1989	r58.4	48.9	2.2	--	34.3	12.4	r9.5	--
1990	r50.8	41.0	--	--	32.5	8.5	r9.8	--
1991	44.8	36.4	--	--	29.7	6.7	8.4	--
61 MEDICAL, SURGICAL & SANITARY*								
1987	454.6	369.1	--	75.5	102.4	191.2	85.5	--
1988	451.5	382.1	--	85.1	117.2	179.8	69.4	--
1989	r457.5	377.9	c	78.1	120.3	179.5	r79.6	--
1990	r563.6	477.5	0.9	78.3	191.4	206.9	r86.1	--
1991	597.9	514.3	1.3	69.1	192.3	251.6	83.6	--
79b UNALLOCATED NONWOVENS*								
1987	223.6	223.6	--	50.5	--	173.1	--	--
1988	257.9	257.9	--	46.7	--	211.2	--	--
1989	265.4	265.4	--	43.6	--	221.8	--	--
1990	r244.1	r244.1	--	51.6	--	r192.5	--	--
1991	208.9	208.9	--	42.6	--	166.3	--	--
79a FIBERFILL, STUFFING & FLOCK*								
1987	403.8	403.8	--	0.4	--	403.4	--	--
1988	420.1	420.1	--	1.7	--	418.4	--	--
1989	418.7	418.7	--	1.6	--	417.1	--	--
1990	r439.8	r439.8	--	0.9	--	r438.9	--	--
1991	495.7	495.7	--	0.8	--	494.9	--	--
70 FELTS*								
1987	20.4	7.1	--	3.2	3.9	8.1	1.0	12.3
1988	17.5	5.4	--	1.6	3.8	8.9	0.9	11.2
1989	27.1	18.1	--	1.5	3.2	13.4	1.0	8.0
1990	29.1	18.9	--	1.2	2.9	14.8	1.1	9.1
1991	42.2	30.2	--	1.0	2.6	26.6	1.2	10.8
71 FILTRATION*								
1987	34.5	28.3	--	8.3	3.5	16.5	6.2	--
1988	33.3	30.4	--	4.1	3.6	22.7	2.9	--
1989	r34.1	31.2	--	3.9	3.2	24.1	r2.9	--
1990	r31.1	28.3	--	4.0	3.0	21.3	r2.8	--
1991	31.7	29.1	--	2.3	2.3	24.5	2.6	--

For all lettered and general footnotes to this table and the Apparel, Home Textiles and Floor Covering tables, please see page 186.

TABLE 9:
FIBER CONSUMED IN U.S. INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS
INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE ^a (CONTINUED)
MILLION POUNDS

END USE & YEAR		TOTAL FIBER	MANUFACTURED FIBERS ^b				COTTON	WOOL	
			TOTAL	ARTIFICIAL (CELL)		SYNTHETIC (NONCELL)			
				YARN	STAPLE*	YARN			STAPLE
73 ROPE, CORDAGE, FISHLINE, ETC*									
1987	192.7	167.9	0.9	0.5	158.0	8.5	24.8	--	
1988	178.8	159.0	0.6	0.1	153.9	4.4	19.8	--	
1989	r196.7	177.1	0.6	0.1	174.1	2.3	r19.6	--	
1990	r203.2	r182.4	--	--	175.1	r7.3	r20.8	--	
1991	183.6	163.2	--	c	150.8	12.4	20.4	--	
72 SEWING THREAD*									
1987	140.2	94.9	0.4	4.1	69.4	21.0	45.3	--	
1988	150.0	113.5	0.3	1.9	91.0	20.3	36.5	--	
1989	r142.3	102.0	0.4	1.8	78.1	21.7	r40.3	--	
1990	r137.9	94.0	0.2	1.5	74.0	18.3	r43.9	--	
1991	143.5	95.1	c	1.3	72.6	21.2	48.4	--	
76 PAPER & TAPE REINFORCING*									
1987	7.0	4.7	0.7	0.7	2.5	0.8	2.3	--	
1988	6.4	4.5	0.4	--	1.2	2.9	1.9	--	
1989	r6.5	4.3	1.5	--	0.6	2.2	r2.2	--	
1990	r5.9	3.7	0.6	0.2	0.2	2.7	r2.2	--	
1991	6.4	4.3	0.5	--	--	3.8	2.1	--	
69,77 ELECTRICAL & REINFORCED PLASTICS*									
1987	30.4	5.4	c	0.4	4.2	0.8	25.0	--	
1988	31.6	6.6	c	1.3	4.2	1.1	25.0	--	
1989	40.5	15.5	--	1.2	13.3	1.0	25.0	--	
1990	42.5	17.5	--	0.9	16.1	0.5	25.0	--	
1991	41.0	16.0	--	0.8	14.8	0.4	25.0	--	
75 COATED & PROTECTIVE FABRICS*									
1987	182.7	119.5	--	3.8	57.2	58.5	63.2	--	
1988	157.2	105.7	--	3.0	56.1	46.6	51.5	--	
1989	r210.0	158.8	--	2.8	82.0	74.0	r51.2	--	
1990	r215.2	163.9	--	2.6	73.1	88.2	r51.3	--	
1991	221.1	169.1	--	2.6	66.6	99.9	52.0	--	
63-64 TRANSPORTATION FABRIC*									
1987	98.7	86.9	--	0.8	53.5	32.6	11.8	--	
1988	106.7	97.3	--	7.6	48.2	41.5	9.4	--	
1989	r117.4	107.5	--	7.2	43.7	56.6	r9.9	--	
1990	r95.3	87.4	--	5.3	41.9	40.2	r7.9	--	
1991	98.8	90.4	--	4.6	43.8	42.0	8.4	--	
56c NARROW FABRICS*									
1987	122.3	104.1	--	--	104.1	--	18.2	--	
1988	129.9	112.1	--	--	111.4	0.7	17.8	--	
1989	r124.1	105.5	0.1	--	104.4	1.0	r18.6	--	
1990	r133.7	115.0	--	--	111.6	3.4	r18.7	--	
1991	137.0	118.7	--	--	114.6	4.1	18.3	--	
74 BAGS & BAGGING*									
1987	62.9	57.6	--	0.3	54.8	2.5	5.3	--	
1988	62.1	58.3	0.1	0.1	57.6	0.5	3.8	--	
1989	r54.6	50.4	--	0.1	50.0	0.3	r4.2	--	
1990	r53.1	48.8	--	0.1	48.4	0.3	r4.3	--	
1991	54.4	50.6	--	0.1	43.8	6.7	3.8	--	
MISCELLANEOUS INDUSTRIAL & CONSUMER-TYPE PRODUCTS*									
1987	430.5	359.1	--	18.1	222.1	118.9	70.3	1.1	
1988	397.9	344.8	3.7	6.8	244.4	89.9	52.1	1.0	
1989	r332.7	277.0	7.7	7.4	230.1	31.8	r54.7	1.0	
1990	r396.4	r341.0	1.4	16.6	206.8	r116.2	r54.3	1.1	
1991	452.9	397.6	0.9	14.3	206.4	176.0	54.0	1.1	

* FOR 1989 THROUGH 1991, ARTIFICIAL (CELLULOSIC) STAPLE QUANTITIES WERE PRORATED BASED ON 1988 ACTUAL DATA TO AVOID COMPANY DISCLOSURE.

Most of the above data are taken from the Fiber Economics Bureau's publication *Manufactured Fiber Handbook*.

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

GENERAL NOTES FOR END USE TABLES
ON PAGES 179-185

Units are in million pounds.

- - Little, or none, of the fiber is used.
- * When an asterisk appears, there is a footnote at the end of the table.
- a. This letter in the title of each table refers the reader to these notes.
- b. Manufactured fiber end use in these tables is divided between Artificial (Cellulosic), (rayon+acetate fibers) and Synthetic (Noncellulosic), (nylon, polyester, acrylic & olefin fiber). Yarn includes monofilaments and olefin "yarn" also includes film fiber and spunbonded polypropylene. Staple includes tow & fiberfill; see Item 79a, Fiberfill, Stuffing & Flock and its footnote on page 188. Certain waste quantities, which are tabulated with staple, are included; see text on page 175.

The synthetic (noncellulosic) fibers included in this survey, for one or more years, are the acrylic, modacrylic, nylon, olefin (polyethylene & polypropylene), polyester fibers

- c. through 1991. 1987- 1991 exclude vinyon fiber. Less than 50,000 pounds, i.e., nominal.
- d. The staple data are tabulated in the yarn column.
- e. The yarn data are tabulated in the staple column.
- f. The increase in yarns for floor coverings is due to a more thorough response and not because of increased consumption.
- r. This data shows a significant revision compared with the September 1991 *Fiber Organon* data.

As described in the footnotes to Items 54a and 54b, apparel linings, pockets and such are tabulated in Items 54a and 54b and not with the applicable garments.

In the Apparel table, the sex and age classifications used are those of the U.S. Census Bureau. Thus **M** means Men's plus Boys' and **W** means all other persons, i.e., Women's, Misses', Juniors', Girls', Children's & Infants'.

NOTES FOR APPAREL ITEMS
PAGES 180-181

For all lettered and general footnotes to this table, see notes above.

- 40. **SHEER HOSIERY:**
Includes pantyhose, stockings, body stockings, leotards & tights, sheer knee-highs & anklets and support hose.
- 19,41. **ANKLETS & SOCKS:**
Include footsocks, anklets, half-hose, over-the-calf hosiery and nonsheer knee-highs for all ages and both sexes. Also includes infants' and children's waist-highs.
- 8,29. **SWEATERS (MW):**
Knitted sweater shirts, scarves, mufflers, gloves, mittens, caps, etc. Pullover, coat & cardigan types, full-fashioned and cut and sewn. Also note Item 57.
- 57. **CRAFT & HANDWORK YARNS:**
All yarns for handwork, i.e., knitting, embroidery, crocheting, needlepoint, macramé, crewel and yarn kits for all uses. Does not include sewing thread (Item 72). Olefin yarn for macramé is in Miscellaneous Industrial.
- 16-18. **UNDERWEAR & NIGHTWEAR (M):**
Undershirts, shorts & briefs, pajamas, nightshirts, sleepcoats, thermal underwear, etc.
- 35-39. **UNDERWEAR, NIGHTWEAR, BRAS AND FOUNDATIONS:**
Underwear and nightwear component includes full and halfslips, panties, petticoats, Pettipants, camisoles, vests, briefs and thermal underwear as well as nightgowns, pajamas, sleepcoats, peignoirs, robes, negligees and bedjackets. Also includes bodywear and all children's and infants' underwear & nightwear. **Excludes** the trim, elastic webbing, apparel lace, braid or narrow fabric used in these products.

The bras and foundations include corsets, girdles, combinations and one-piece garments, garter belts, hose supporters, two-way stretch and surgical & maternity foundation garments.
- 10,31. **ROBES & LOUNGEWEAR (MW):**
Men's & boys' beach & bathrobes, dressing gowns and smoking jackets, and women's beach & bathrobes and house-breakfast & brunch coats and dressing gowns.

- 54a. **HIGH PILE FABRICS:**
Include all applications. End uses such as coatings, collars, linings, backings and paint rollers are included. Napped or brushed fabrics such as fleeces, velvets or corduroys are excluded.
- 54b. **FABRICS FOR LINING:**
All manufactured fiber types except high pile fabrics (Item 54a), lining-type fabrics sold as retail piece goods and the lining components of shoes & slippers and luggage and handbags (Miscellaneous Other Consumer-Type). The apparel lining component of this series include main linings, interlinings, zip-in linings (except pile), pocketing and banding as well as the acetate and nylon tricot for laminating. Cotton drapery linings are not included here but are in Item 52. Also not included are interlinings of haircloth, urethane and nonwoven fabrics.
- 43. **APPAREL LACE:**
Nets and veilings.
- 56a. **NARROW FABRICS: ELASTIC AND NONELASTIC TYPES.**
The "narrow woven goods" made by slicing broad woven fabrics are not included. **NARROW FABRIC** quantities for home textiles and industrial uses are shown in those sections.
- RETAIL PIECE GOODS:**
Are included in Topweight and Bottomweight Fabrics.
- TOPWEIGHT FABRICS:**
All shirts, blouses, lightweight dress and lightweight fashion fabrics. Fabrics generally weigh 5.0 ounces or less per square yard. Retail piece goods are included.
- BOTTOMWEIGHT FABRICS:**
Pants, jeans, sportswear, tailored clothing, coats and jackets, career apparel and heavier weight fashion fabrics. Fabrics generally weigh more than 5.0 ounces per square yard. Retail piece goods are included.
- OTHER APPAREL:**
Men's & women's work gloves and handkerchiefs. Manufactured fiber used for knitted accessories such as scarves, mufflers, gloves, mittens, caps, etc., is in Items 8 & 29.

NOTES FOR HOME TEXTILE ITEMS

PAGES 182-183

For all lettered and general footnotes to this table, see page 186.

HOME TEXTILES:

Data cover the use of each item not only in homes, but also in offices, hotels, institutions, etc. For certain transportation uses, note Items 50a, 63 & 64.

None of the quantities tabulated include any cotton stuffing or filling materials in items such as furniture, pillows, mattresses, comforters & quilts, sleeping bags, seat padding, etc. For the manufactured fibers, however, stuffing & fiberfill are tabulated in the Industrial section. Note text on page 175 regarding the inclusion of certain manufactured fiber waste quantities here. Certain felt quantities are in Item 70.

45. BEDSPREADS:

Tailored & throw spreads, both tufted & woven, as well as the backing. **QUILTS:** Comforters and their outer shell, quilted pads are in Item 47.

46. BLANKETS & BLANKETING:

Woven, knit, needlepunched and flocked full-size and crib blankets and electric blanket shells, as well as the woven acetate or nylon filament yarn bindings thereof. Sizeable quantities of rayon, acrylic, nylon & wool waste are included here.

47. SHEETS:

Pillowcases. **OTHER BEDDING:** Outside covers of quilted pads; mattress & mattress pads, civilian cots and sleeping bag shells. Mattress felts are in Item 70.

The manufactured staple quantities here are mainly polyester for sheets and rayon & polyester for bed ticking. The manufactured filament is chiefly polyester for bed ticking.

48. TOWELS & TOWELING:

Woven hand, bath, dish towels, etc. Nonwoven towels, such as "Handi-wipes" and industrial wiping cloths, are in Item 61. The large cotton waste quantity used in these products is not included.

56b. NARROW FABRICS:

Only home textiles applications. See the Apparel and Industrial sections for Narrow Fabrics in those applications.

51. CURTAINS & DRAPERY:

Lace and other types (principally woven) i.e., cafe, tiered & cottage, ruffled, shortie drapes and tailored. Also includes the backing & headers of drapery fabrics. The cotton data include cotton drapery linings. Shower curtains are in Other Home Textiles.

52. UPHOLSTERY:

Furniture slipcovers and vinyl-coated cotton fabrics for upholstery. The olefin & saran webbing for outdoor furniture is included under Narrow Woven Industrial (Item 56c).

OTHER HOME TEXTILES:

Woven & lace napery, such as tablecloths & napkins, doilies, etc., as well as the cotton in window shades. For the manufactured fibers, it includes insect screening & netting. Wall covering fabric is in Miscellaneous Industrial.

NOTES FOR FLOOR COVERING ITEMS

PAGE 183

For all lettered and general footnotes to this table, see page 186.

50. CARPETS & RUGS FACE FIBER (TOTAL):

Sum of 50a & 50b.

50a. FACE YARNS:

Tufted, woven, knitted and needlepunched types. Tufted includes broadloom & roll goods, (including carpet tiles) transportation carpet, bath mats, scatter rugs, and "grass". Woven includes carpets such as Axminster, Velvet, Wilton, etc. Knit goods are mainly scatter rugs. Needle punched are the indoor outdoor carpets. Item 50a does not include

braided, hooked or woven twisted paper carpets.

50b. CARPET BACKING FIBERS:

The Artificial (Cellulosic) Yarn is industrial rayon used for woven carpet chain warps. The Other Yarn is olefin (monofil-film fiber-spunbonded) and small quantities of nylon & polyester filament yarn. The Other Staple is olefin only. The substantial quantities of jute used as woven primary & secondary carpet backing, as well as the jute yarn used in the warp of woven carpets, are not tabulated in Item 50b. Nor does it include the quantities of wool, hair and jute used in carpet and rug pads and cushions.

NOTES FOR INDUSTRIAL & OTHER CONSUMER -TYPE ITEMS

PAGES 184-185

For all lettered and general footnotes to this table, see page 186.

56c. NARROW FABRICS:

Woven labels, industrial webbing, shoelaces, tapes (venetian blinds & industrial), transportation seat belts, auto windlace, channeling & trim, outdoor furniture webs and zipper tapes. These figures exclude transmission & conveyor belting (in Item 67); friction tape and the braided narrow fabric used in electrical applications (in Item 69); and gummed cotton tape (in Item 76).

61. MEDICAL, SURGICAL & SANITARY:

Bandages, gauzes, adhesive tapes & plasters, sanitary napkins & tampons, cotton diapers, rayon disposable dia-

pers, surgical gowns and packs. Medical sutures are tabulated in Item 72. Surgical hosiery is in Items 19 & 40. Not included here is cotton waste & linters nor any nontextiles used for filling materials.

63 & 64. TRANSPORTATION FABRIC:

Auto seat upholstery & slipcovers, sidewall, headlining and sheeting. The cotton quantities include the knit and woven fabric used as the backing for vinyl sheeting. The item includes convertible auto tops & replacements thereof, as well as upholstery used in other kinds of transportation, such as airplanes, railroad & subway cars, buses, etc. It does not include seat padding, transportation rugs (in Item 50), window channeling (in Item 56c), flocking, tassels, trim, etc.

Notes for Industrial & Other Consumer-Type Items (Continued)

The manufactured fiber used for substrates for automotive fabric is included in Item 75.

65. TIRES:

All types, i.e., automobile, truck, tractor, off-road, bicycle, etc. The data include tire cord & tire cord fabric, chafer and other tire components, i.e., flippers, liners, bead wrap & breaker strips.

The data include imports of tire yarn, cord & fabric and also cover any quantities subsequently exported in cord or fabric form.

The consumption of steel tire cord for the years 1987-1990 inclusive is estimated as follows: 349.0, 393.0, 441.2 & 421.6. However, these quantities are **not included** in Item 65.

66. HOSE:

Includes wrapped, knitted, braided and woven products. Does not include braided vacuum cleaner hose.

67. BELTING:

Includes flat conveyor & transmission belts (both rubber and nonrubber, and mechanical rubber goods).

69 & 77. ELECTRICAL APPLICATIONS & REINFORCED PLASTICS:

The cotton quantities are estimated.

Electrical Applications: Electric wire insulation & covering of all kinds plus friction tape and cable wrap, stuffing & identification. The total fiber consumed does not reflect the increased use of plastic and other nonfibrous coatings, of course.

Reinforced Plastics: High- and low-pressure laminates used in the manufacture of construction materials (corrugated & flat sheet, plumbing accessories, etc.), process equipment (tanks & containers, pipes, ducts, etc.), transportation uses (aircraft, autos, trucks, etc.) and marine, missiles, molded electrical parts, housing, seating, trays, etc. Flexible laminates of cotton are tabulated by end use, e.g., vinyl-supported upholstery fabric in Item 63, etc.

70. FELTS:

Wet & dry papermakers' felts, mattress felts and cushioning & wicking felts. Apparel felts (e.g., for shirts) are classified by apparel products. Patio and similar "felts" are in Item 50a. Laundry press pads and flatwork ironer pads are in Miscellaneous Industrial. The wool quantity includes some felts used in filtration (recorded here and not in Item 71), but excludes the substantial amounts used in pressed felts.

71. FILTRATION:

Woven and nonwoven filters for wet & dry filtration, including tea bags. The small wool quantity used in the copper refining industry is included in Item 70.

The fiber used in cigarette filtration is **not included** in this end use or in the Industrial Uses totals.

72. SEWING THREAD:

Home sewing and industrial & weight goods, as well as medical sutures.

73. ROPE (Braided & twisted), CORDAGE (under 3/16"), FISHLINE, ETC:

Includes hawsers, baler or harvest twine, clothesline, tying twine, etc., as well as fishnets, seines & netting twine.

74. BAGS & BAGGING:

Manufactured Other Yarn is nylon mailbags plus olefin leno mesh & close-woven bags, including sandbags; also includes olefin bagging for wool bales. Carpet backing bale wrap is in Other Industrial.

75. COATED & PROTECTIVE FABRICS:

For the manufactured fibers, tents & tarpaulins, as well as the substrates for vinyl, rubber or urethane coating, lamination or impregnation. Examples of specific end uses covered include parachutes, deceleration chutes & tow targets, awnings, beach, garden & tractor umbrellas, inflatable dunnage & cushions, air-supported structures & automotive air-spring diaphragms and boat & pool covers.

The cotton quantities include awnings, boat covers, tarpaulins and tents. **Not included** here are the cotton quantities used for vinyl substrates; such quantities are tabulated with their appropriate end use, i.e., transportation upholstery (Items 63 & 64), upholstery (Item 52), etc. Manufactured fiber surfaces for recreational fields are not included in this survey.

76. PAPER & TAPE REINFORCING:

Gummed and pressure-sensitive tape, as well as nonwoven bonded structures for paper, tape and ribbon reinforcing.

79a. FIBERFILL, STUFFING & FLOCK:

All applications (apparel, home textiles & industrial). Both graded fiber and waste are included. The consumption of polyester staple & tow in fiberfill for the years 1987-1991 inclusive were: 348.6, 357.2, 349.5, 376.3 & 429.5. For the same years, use of polyester waste for stuffing and filling materials were: 45.3, 50.1, 56.2, 51.1 & 56.5.

79b. UNALLOCATED NONWOVENS:

All nonwoven quantities remaining after the identifiable nonwoven end uses, such as medical, surgical & sanitary, filtration, coated & protective fabrics, and paper & tape reinforcing, have been calculated.

MISCELLANEOUS INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS:

The cotton for abrasives, book binding, luggage & handbags, shoes & slippers, tobacco cloth, woven wiping cloths and wall-covering fabrics. For rayon, it includes asbestos carrier fiber, laundry supplies and mop yarns. For olefin yarn, it includes agricultural cloth, bale wrap, cable binding, civil engineering fabrics and macramé and other craft yarns.

TABLE 10:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1992												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1992	1991
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	157	66	48	15	40	40	1						367	512
BELGIUM	100	0	98	64	280	125	107						774	103
BRAZIL	54	105	79	78	78	132	319						845	460
CANADA	1201	1053	1475	1499	1292	1156	1594						9270	5485
FRANCE	2	11	5	9	7	2	2						38	15
GERMANY	736	951	412	531	479	350	496						3955	3690
JAPAN	176	77	161	210	132	161	251						1168	905
MEXICO	107	70	105	105	75	65	54						581	627
NETHERLANDS	254	262	157	145	196	72	205						1293	1545
UNITED KINGDOM	383	297	416	325	394	382	45						2242	451
ALL OTHER COUNTRIES	6	0	15	24	5	7	29						86 ^a	568
TOTAL ARTIFICIAL YARN	3176	2892	2971	3005	2980	2492	3103						20619	14361
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	1567	1396	1473	1104	1319	1325	820						9004	8839
CANADA	4675	4144	4333	4376	4540	4013	2663						28744	20234
FINLAND	424	744	473	855	1753	373	352						4974	2137
GERMANY	41	38	0	64	38	7	71						259	823
JAPAN	85	25	68	69	21	15	67						350	767
SWEDEN	112	106	223	77	70	111	195						894	656
TAIWAN	220	0	287	441	954	616	441						2959	9245
THAILAND	189	189	186	134	99	49	49						895	3572
UNITED KINGDOM	702	322	456	425	75	45	479						2504	2277
YUGOSLAVIA	298	0	128	256	42	256	0						980	4857
ALL OTHER COUNTRIES	371	435	498	141	3	67	164						1679 ^b	2228
TOTAL ARTIFICIAL STAPLE+TOW	8684	7399	8125	7942	8914	6877	5301						53242	55635
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
BELGIUM	3	39	31	34	46	94	293						540	645
CANADA	4980	3882	3597	6272	5820	5154	5588						35293	30116
COSTA RICA	485	465	393	754	583	879	707						4066	3846
FRANCE	1128	435	656	570	771	935	884						5179	5465
GERMANY	1433	2244	1807	2114	1831	2407	2532						14368	12552
IRELAND	78	105	334	167	148	162	139						1133	1122
ISRAEL	294	338	210	191	334	277	303						1947	918
ITALY	209	113	119	90	170	204	243						1148	546
JAPAN	1687	1635	1595	1419	1574	1478	1727						11115	8029
KOREA, REP. OF	179	58	159	161	198	197	113						1065	640
MEXICO	1047	1554	1449	1474	1409	1612	1740						10285	9572
NETHERLANDS	412	362	667	279	512	254	606						3092	2174
SOUTH AFRICA	543	331	475	360	571	790	1283						4353	0
SPAIN	20	184	81	40	62	80	26						493	0
SWITZERLAND	49	48	161	49	88	11	8						414	82
TAIWAN	680	547	37	132	230	383	381						2390	847
THAILAND	107	79	109	94	126	100	95						710	561
TURKEY	16	26	34	43	57	94	30						300	750
UNITED KINGDOM	2218	2464	3076	2480	1882	1962	2665						16747	13294
ALL OTHER COUNTRIES	199	289	60	302	157	1034	1261						3302 ^c	1459
TOTAL SYNTHETIC YARN	15767	15198	15050	17025	16569	17907	20424						117940	92618
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRALIA	31	24	50	33	81	25	44						288	414
AUSTRIA	22	13	12	23	10	1	15						96	73
CANADA	3647	4089	5469	3288	3744	4478	3609						28324	12511
FRANCE	551	409	401	558	218	508	311						2956	2840
GERMANY	1983	2109	2302	2839	1786	3247	1284						15550	11540
INDIA	93	47	262	1078	67	22	4						1573	9135
IRELAND	468	43	427	258	274	397	560						2427	1345
ITALY	291	56	28	127	232	470	204						1408	618
JAPAN	2184	3017	2863	3040	2902	2483	2633						19122	15220
KOREA, REP. OF	7466	4228	9395	10932	9026	8618	11039						60704	43886
MEXICO	1981	1579	1690	2413	2790	3269	2072						15794	14154
SPAIN	62	64	104	209	162	60	53						714	246
SWITZERLAND	364	144	234	416	242	512	310						2222	1591
TAIWAN	4520	5903	5818	6736	5351	6245	5975						40548	19543
TURKEY	127	240	491	40	130	302	608						1938	329
UNITED KINGDOM	1444	1677	1439	1742	1713	1361	1928						11304	9276
ALL OTHER COUNTRIES	284	80	81	556	189	36	135						1341 ^d	2177
TOTAL SYNTHETIC STAPLE+TOW	25518	23722	31066	34288	28897	32034	30784						206309	144898

a. Korea, Rep. of 44, Italy 21, India 13, Taiwan 3, Uruguay 3, China, PRC 1, Thailand 1.

b. Spain 707, Brazil 571, Poland 88, Belgium 80, China, PRC 66, Czechoslovakia 60, France 45, C.I.S. 39, India 20, Italy 3.

c. India 2097, Australia 291, Egypt 247, Portugal 180, Brazil 91, Austria 86, Czechoslovakia 59, Denmark 55, Honduras 50, Hong Kong 32, Sweden 25,

Romania 22, Poland 21, C.I.S. 18, Yugoslavia 17, China, PRC 4, Colombia 3, Greece 3, Argentina 1.

d. China, PRC 443, Israel 196, Malaysia 176, Hong Kong 78, Brazil 75, Romania 65, Denmark 63, Belgium 56, Hungary 50, South Africa 46, Colombia 41, Czechoslovakia 31, C.I.S. 15, Netherlands 5, Sweden 1.

**TABLE 11:
U.S. MANUFACTURED FIBER IMPORTS^a
THOUSAND POUNDS**

ITEM	1992												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1992	1991
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	528	848	202	342	334	265	329						2848	1359
TEXTURED	0	0	13	0	0	1	0						14	5
OTHER	2637	2044	2756	2662	2644	2226	2772						17741	12985
MONOFILAMENTS & STRIPS	11	0	0	1	2	0	2						16	12
SUBTOTAL ABOVE	3176	2892	2971	3005	2980	2492	3103						20619	14361
STAPLE	8581	7288	7938	7753	8799	6719	5066						52144	54732
TOW	103	111	187	189	114	153	234						1091	903
TOPS	0	0	0	0	1	5	1						7	0
SUBTOTAL ABOVE	8684	7399	8125	7942	8914	6877	5301						53242	55635
WASTE	0	46	47	34	0	22	22						171	1684
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	913	980	950	1250	1113	689	1003						6898	12933
TEXTURED														
UP TO 450 DENIER	411	517	424	475	644	581	682						3734	2380
OVER 450 DENIER	3249	1978	1764	3385	3059	3661	3646						20742	15937
POY	2498	3305	3987	3361	3080	3013	3643						23087	17081
OTHER	2245	1850	1791	2394	2497	2330	2442						15549	10019
MONOFILAMENTS & STRIPS	172	165	112	183	188	159	195						1174	846
SUBTOTAL ABOVE	9488	8795	9028	11248	10581	10433	11611						71184	59196
POLYESTER														
HIGH TENACITY	1142	1602	1593	1524	1642	1501	2116						11120	4115
TEXTURED	630	854	835	1106	677	734	635						5471	4306
POY	728	634	302	621	476	1655	2041						6457	1770
OTHER	1229	1433	1192	885	946	1758	1580						9023	10500
MONOFILAMENTS & STRIPS	38	75	29	38	100	114	332						726	415
SUBTOTAL ABOVE	3767	4598	3951	4174	3841	5762	6704						32797	21106
OTHER SYNTHETIC FILAMENT														
TEXTURED	212	93	72	119	203	93	121						913	1095
OTHER	1496	1096	1231	965	1367	1076	1432						8663	7418
MONOFILAMENTS & STRIPS	804	616	768	519	577	543	556						4383	3803
SUBTOTAL ABOVE	2512	1805	2071	1603	2147	1712	2109						13959	12316
STAPLE														
NYLON	2554	2136	3403	2803	2386	2952	2783						19017	14567
POLYESTER	17422	15430	20302	24558	20654	22705	22084						143155	98852
ACRYLIC	1607	1450	2326	2048	1152	1970	1514						12067	8338
POLYPROPYLENE	168	77	268	340	183	141	178						1355	2786
OTHER	265	320	258	182	713	519	322						2579	1876
TOW														
NYLON	701	503	688	883	460	583	438						4256	3182
POLYESTER	35	78	122	0	56	92	307						690	680
ACRYLIC	2009	2686	2324	2657	2309	1693	2058						15736	13806
OTHER	0	39	22	0	55	81	13						210	85
TOPS	757	1003	1353	817	929	1298	1087						7244	726
SUBTOTAL ABOVE	25518	23722	31066	34288	28897	32034	30784						206309	144898
WASTE														
NYLON	791	1083	1481	1594	1750	1285	2042						10026	11577
POLYESTER	1022	1149	1194	679	872	1128	1213						7257	7670
OTHER	606	633	681	946	793	726	704						5089	3696
TOTAL MANUFACTURED FIBERS ABOVE	55564	52122	60615	65513	60775	62471	63593						420653	332139
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	251	136	213	153	191	196	106						1246	899
SPUN YARN	318	277	317	643	706	607	871						3739	3884
SPUN YARNS														
SYNTHETIC	922	559	702	621	1075	846	700						5425	4510
ARTIFICIAL	0	0	0	0	0	0	0						0	0
PUT UP FOR RETAIL SALE	48	28	20	41	33	68	49						287	436
GRAND TOTAL ABOVE	57103	53122	61867	66971	62780	64188	65319						431350	341868

SOURCE: U.S. Census Bureau Report IM145X.

a. U.S. General Imports.

**TABLE 12:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS**

ITEM	1992												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1992	1991
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	13	1	1	0	22	33	15						85	974
TEXTURED	7	61	13	37	29	9	31						187	617
OTHER	247	176	191	228	36	21	136						1035	970
MONOFILAMENTS & STRIPS	19	42	100	47	37	56	34						335	103
SUBTOTAL ABOVE	286	280	305	312	124	119	216						1642	2664
STAPLE	1371	1087	1047	1643	1194	928	467						7737	8683
TOPS	1910	479	218	19	0	0	0						2626	333
SUBTOTAL ABOVE	3281	1566	1265	1662	1194	928	467						10363	9016
WASTE	229	656	528	574	1345	600	400						4332	4992
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	4619	5521	5465	5135	5160	2995	2991						31886	54357
TEXTURED														
UP TO 450 DENIER	923	786	816	634	636	991	683						5469	8196
OVER 450 DENIER	6214	4125	4665	3499	3595	2975	3029						28102	26230
POY	52	80	198	144	209	184	131						998	311
OTHER	3119	3582	3893	2738	3030	3424	2506						22292	22800
MONOFILAMENTS & STRIPS	29	32	29	128	157	76	168						619	232
SUBTOTAL ABOVE	14956	14126	15066	12278	12757	10645	9508						89366	112126
POLYESTER														
HIGH TENACITY	4556	3556	4228	3783	3372	3774	2402						25671	41462
TEXTURED	5546	6616	8101	7258	6149	6556	3502						43728	37496
POY	884	1205	1232	1411	1650	1454	646						8482	9095
OTHER	629	768	745	612	708	577	704						4743	15618
MONOFILAMENTS & STRIPS	113	95	99	337	391	103	131						1269	1680
SUBTOTAL ABOVE	11728	12240	14405	13401	12270	12464	7385						83893	105351
OTHER SYNTHETIC FILAMENT														
TEXTURED	596	338	407	281	479	458	366						2925	3778
OTHER	1569	1395	2521	2129	2517	2368	2202						14701	15216
MONOFILAMENTS & STRIPS	967	954	1275	1495	1365	1311	1043						8410	7922
SUBTOTAL ABOVE	3132	2687	4203	3905	4361	4137	3611						26036	26916
STAPLE														
NYLON	2465	2456	2976	2523	3131	2436	2436						18423	14723
POLYESTER	7763	8890	7719	7642	7420	9493	7258						56185	61712
ACRYLIC	1251	1310	1982	2654	2524	3457	1799						14977	17996
POLYPROPYLENE	3041	3740	5748	3109	5461	4966	4765						30850	17857
OTHER	454	266	323	262	394	326	317						2342	8694
TOW														
NYLON	340	361	359	315	282	219	337						2213	1051
POLYESTER	108	7	43	40	30	79	57						364	291
ACRYLIC	556	557	630	428	2448	732	2237						7588	5546
OTHER	1	16	4	1	4	4	28						58	427
TOPS	9392	6332	3304	3984	2317	2380	2321						30030	47563
SUBTOTAL ABOVE	25371	23935	23088	20958	24011	24112	21555						163030	175860
WASTE														
NYLON	2800	2293	1940	2183	1831	2199	1369						14615	18967
POLYESTER	3787	4239	4659	2716	3509	4992	3831						27733	24318
OTHER	6168	5955	5627	5193	6837	4921	4496						38997	47993
TOTAL MANUFACTURED FIBERS ABOVE	71738	67977	71086	63182	69069	65117	52838						460007	528203
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	610	560	819	455	571	1041	893						4949	6638
SPUN YARN	278	1332	635	3130	2646	1257	2644						11922	1491
SPUN YARNS														
SYNTHETIC	2140	1933	2542	1301	1799	1385	1434						12534	10011
ARTIFICIAL	526	355	508	312	579	314	268						2862	1848
PUT UP FOR RETAIL SALE	2727	2230	3082	2318	2707	817	698						14579	17203
GRAND TOTAL ABOVE	78019	74387	78672	70698	76371	69931	56775						506853	565394

SOURCE: U.S. Census Bureau Report EM522.

TABLE 13:
SELECTED U.S. MONTHLY FIBER DATA
MILLION POUNDS

ITEM	1992												YEAR TO DATE ^a	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1992	1991
MANUFACTURED FIBER TOTAL SHIPMENTS^{b,c}														
ARTIFICIAL (CELLULOSIC)														
YARN	16.8	17.9	17.4	21.9	18.3	19.0	19.5	16.7					147.5	139.8
RAYON STAPLE	23.0	21.0	22.7	19.8	23.9	20.3	23.2	24.3					178.2	177.3
TOTAL ARTIFICIAL (CELLULOSIC)	39.8	38.9	40.1	41.7	42.2	39.3	42.7	41.0					325.7	317.1
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL ^d	25.2	23.2	28.8	27.7	26.2	25.1	25.1	23.4					204.7	213.0
- CARPET	82.4	77.9	86.2	92.5	86.5	80.2	85.6	83.6					674.9	611.8
- TEXTILE ^f	33.9	29.2	31.8	30.4	31.1	30.2	31.1	31.8					249.5	251.7
POLYESTER - INDUSTRIAL ^d	30.6	28.9	31.6	34.9	30.5	31.5	29.6	31.3					248.9	221.2
- TEXTILE ^f	71.2	67.8	77.1	81.2	74.1	76.2	71.8	75.9					595.3	562.8
OLEFIN ^e	110.0	115.3	121.6	131.3	132.1	129.7	125.7	130.0					995.7	918.5
TOTAL YARN	353.3	342.3	377.1	398.0	380.5	372.9	368.9	376.0					2969.0	2779.0
STAPLE+TOW+FIBERFILL														
NYLON	70.8	63.5	79.3	85.3	77.6	75.0	76.8	74.6					602.9	572.5
ACRYLIC+MODACRYLIC	35.1	33.5	39.5	39.5	38.2	36.2	35.8	36.9					294.7	293.6
POLYESTER	195.1	186.8	203.1	208.7	177.5	179.5	198.2	189.9					1538.8	1431.2
OLEFIN	36.0	38.4	39.4	38.7	37.9	36.4	38.0	40.3					305.1	299.0
TOTAL STAPLE	337.0	322.2	361.3	372.2	331.2	327.1	348.8	341.7					2741.5	2596.3
TOTAL SYNTHETIC (NONCELLULOSIC)	690.3	664.5	738.4	770.2	711.7	700.0	717.7	717.7					5710.5	5375.3
TOTAL MANUFACTURED FIBER	730.1	703.4	778.5	811.9	753.9	739.3	760.4	758.7					6036.2	5692.4
MANUFACTURED FIBER END-OF-MONTH STOCK														
ARTIFICIAL (CELLULOSIC)														
YARN	11.3	11.2	10.9	11.5	12.4	12.2	13.1	13.4					13.4	9.4
RAYON STAPLE	25.6	25.7	26.9	30.7	30.4	33.4	32.7	30.6					30.6	24.8
TOTAL ARTIFICIAL (CELLULOSIC)	36.9	36.9	37.8	42.2	42.8	45.6	45.8	44.0					44.0	34.2
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL ^d	30.7	29.6	24.5	22.8	22.5	23.3	23.1	24.0					24.0	29.7
- CARPET	82.8	81.3	79.0	71.7	69.1	71.8	75.3	80.4					80.4	52.1
- TEXTILE ^f	43.4	48.6	52.7	50.0	48.8	48.5	47.4	44.7					44.7	49.5
POLYESTER - INDUSTRIAL ^d	34.7	35.8	34.7	33.7	34.6	34.0	26.5	27.8					27.8	38.1
- TEXTILE ^f	98.0	98.7	94.1	77.6	77.9	82.5	89.3	88.0					88.0	86.1
OLEFIN ^e	58.8	59.5	57.4	54.3	50.7	49.7	50.4	49.4					49.4	53.7
TOTAL YARN	348.4	353.5	342.4	310.1	303.6	309.8	312.0	314.3					314.3	309.2
STAPLE+TOW+FIBERFILL														
NYLON	64.0	63.5	56.5	51.0	55.1	61.3	60.7	64.3					64.3	57.3
ACRYLIC+MODACRYLIC	82.3	83.1	79.7	75.2	74.2	75.3	76.5	77.9					77.9	79.3
POLYESTER	144.3	147.3	146.9	139.2	137.1	156.6	167.7	151.5					151.5	164.7
OLEFIN	33.6	35.3	38.1	41.4	43.1	43.0	41.1	40.5					40.5	26.0
TOTAL STAPLE	324.2	329.2	321.2	306.8	309.5	336.2	346.0	334.2					334.2	327.3
TOTAL SYNTHETIC (NONCELLULOSIC)	672.6	682.7	663.6	616.9	613.1	646.0	658.0	648.5					648.5	636.5
TOTAL MANUFACTURED FIBER	709.5	719.6	701.4	659.1	655.9	691.6	703.8	692.5					692.5	670.7
COTTON CONSUMPTION														
RAW COTTON	369.5	383.0	496.0	376.9	394.5	405.8	341.4						2767.1	NA
WOOL CONSUMPTION^g														
	1ST QUARTER			2ND QUARTER			3RD QUARTER			4TH QUARTER				
APPAREL CLASS WOOL	39.0			38.5									77.5	72.7
CARPET CLASS WOOL	4.6			4.3									8.9	6.2
TOTAL RAW WOOL	43.6			42.8									86.4	78.9

NA - Not Available

- a. "Year to date" totals for stock, are the latest month's figures.
b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
c. Producers' total domestic shipments plus export shipments.

- d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
f. Includes low denier industrial yarn.
g. Wool data available on a quarterly basis only.